bs-18672R **[Primary Antibody]**

phospho-MAPK6 (Ser189) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5597 **SWISS:** Q16659

Target: MAPK6 (Ser189)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human MAPK6 around the phosphorylation site of Ser189: HL(p-S)EG.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Mitogen-activated protein kinase (MAPK) signaling pathways involve closely related MAP kinases, including extracellular-signal-related kinase 3 (ERK 3, also designated PRKM6 and p97MAPK). Serum, growth factors and phorbol esters can initiate ERK 3 signaling pathways. Despite lacking a definitive nuclear localization sequence, ERK 3 constitutively localizes to the nucleus upon activation. p38 pathway activation-dependent upregulation of ERK 3 is independent of the status of p53, Bcl-2 and caspase-3 during cell stress and damage induced by proteasome inhibition, suggesting ERK 3 in part mediates intracellular defense or cell rescue. The human ERK 3 gene maps to chromosome 15q21.2 and encodes a 721 amino acid protein. Function : Phosphorylates microtubule-associated protein 2 (MAP2). May promote entry in the cell cycle.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 83 kDa

Subcellular Location: Cytoplasm ,Nucleus

SELECTED CITATIONS

- **[IF=4.645]** Pin-Shi Ni. et al. Indirect regulation of HIPPO pathway by miRNA mediates high-intensity intermittent exercise to ameliorate aging skeletal muscle function. SCAND J MED SCI SPOR. 2023 Feb;: WB ;Rat. 36789636
- **[IF=2.5]** Chen-Kai Zhang. et al.Long-term aerobic exercise enhances liver health: miRNA regulation and oxidative stress alleviation..BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS.2025 Mar 20:759:151677. Western blot ;Rat. 40138760